

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (canceled).
2. (previously presented): A method for determining a position, in particular a future position, of an object, in particular of a particle or the like, comprising:
  - determining a progression of the position of a reference object passing through a process;
  - forming differences of positions between the object and the reference object;
  - forming error position terms from the differences; ~~and~~
  - weighting the error position terms with at least one correction factor,
  - wherein the error position terms weighted with the correction factor are added up,
  - and the position of the object is determined by adding the weighted and summed error position terms to the position of the reference object; and
  - outputting, displaying, storing or otherwise conveying said determined position of the object.
3. (original): The method according to claim 2, wherein the correction factor is calculated by an adjoint process.

4. (original): The method according to claim 3, wherein the adjoint process, as a function of time, runs in the direction opposite to the process of the reference object.

5. (canceled).

6. (previously presented): A method for determining a position, in particular a future position, of an object, in particular of a particle or the like, comprising:

determining a progression of the position of a reference object passing through a process;

forming differences of positions between the object and the reference object;

forming error position terms from the differences; ~~and~~

weighting the error position terms with at least one correction factor,

wherein the object is a first option, the reference object is a second option, the position is an early exercise price, the error position terms are error price terms, and the correction factor is a constant number; ~~and~~

outputting, displaying, storing or otherwise conveying said early exercise price.

7. (previously presented): The method according to claim 6, wherein the second option is a European equivalent of the first option, the first option being an American option.